

CLAIMS

1. In a resource management infrastructure including a framework for allowing management applications to access managed objects, the framework supporting compliant providers of dynamic services for the managed objects running in a first operative environment
5 a method of integrating a plurality of non-compliant providers of dynamic services for a set of the managed objects, the non-compliant providers running in a second operative environment that is not supported by the framework, wherein the method
10 includes the steps of:
 the framework requesting a first dynamic service for a selected managed object of the set to a compliant provider associated with the selected managed object,
 the compliant provider identifying a non-compliant provider
15 associated with the selected managed object,
 the compliant provider requesting a second dynamic service for the selected managed object, corresponding to the first dynamic service, to an intermediate entity running in the second operative environment passing an indication of the non-compliant
20 provider,
 the intermediate entity routing the request of the second dynamic service to the non-compliant provider.
2. The method according to claim 1, further including the steps of:
25 the compliant provider converting at least one first parameter received from the framework with the request of the first service into at least one second parameter supported by the second operative environment,
 the compliant provider passing the at least one second
30 parameter to the intermediate entity with the request of the second dynamic service, and

the intermediate entity passing the at least one second parameter to the non-compliant provider with the request of the second dynamic service.

3. The method according to claim 1 or 2, further including the
5 steps of:

the non-compliant provider returning a result of the second dynamic service to the intermediate entity,

the intermediate entity returning the result of the second dynamic service to the compliant provider,

10 the compliant provider constructing a result of the first dynamic service according to the result of the second dynamic service, and

the compliant provider returning the result of the first dynamic service to the framework.

15 4. The method according to claim 3, wherein the compliant provider is common to all the managed objects of the set.

5. The method according to claim 4, further including the steps under the control of the compliant provider of:

20 verifying whether the second operative environment has been created before requesting the second dynamic service to the intermediate entity,

creating the second operative environment if the result of the verification is negative, and

25 destroying the second operative environment after a predetermined time-out from a last use thereof.

6. The method according to claim 5, further including the steps under the control of the intermediate entity of:

30 verifying whether each non-compliant provider has been created before requesting the second dynamic service to the non-compliant provider,

creating the non-compliant provider if the result of the verification is negative, and

destroying the non-compliant provider after a predetermined further time-out from a last use thereof.

5 7. The method according to claim 6, further including the steps under the control of the intermediate entity of:

when requesting the second dynamic service to each non-compliant provider, removing a possible record including an identifier of the non-compliant provider from a FIFO queue and
10 inserting a new record into the FIFO queue including the identifier of the non-compliant provider together with an expiration time thereof calculated adding the further time-out to a current time,

setting a signalling time of a timer to the expiration time
15 of a first record to be extracted from the FIFO queue,

in response to the timer reaching the signalling time, destroying the non-compliant provider identified in the first record of the FIFO queue,

extracting the first record from the FIFO queue, and
20 setting the signalling time of the timer to the expiration time of the new first record to be extracted from the FIFO queue.

8. A computer program directly loadable into a working memory of a computer implementing a resource management infrastructure) including a framework for allowing management applications to
25 access managed objects, the framework supporting compliant providers of dynamic services for the managed objects running in a first operative environment, wherein the program when run on the computer performs a method of integrating a plurality of non-compliant providers of dynamic services for a set of the
30 managed objects, the non-compliant providers running in a second operative environment that is not supported by the framework, wherein the method includes the steps of:

a request of a first dynamic service for a selected managed object of the set being received by a compliant provider associated with the selected managed object from the framework,

the compliant provider identifying a non-compliant provider
5 associated with the selected managed object,

the compliant provider requesting a second dynamic service for the selected managed object, corresponding to the first dynamic service, to an intermediate entity running in the second operative environment passing an indication of the non-compliant
10 provider,

the intermediate entity routing the request of the second dynamic service to the non-compliant provider.

9. A program product comprising a computer readable medium on which the program of claim 8 is stored.

15 10. In a resource management infrastructure including a framework for allowing management applications to access managed objects, the framework supporting compliant providers of dynamic services for the managed objects running in a first operative environment, a system for integrating a plurality of non-compliant providers
20 of dynamic services for a set of the managed objects, the non-compliant providers running in a second operative environment that is not supported by the framework, wherein the system includes at least one compliant provider associated with the managed objects of the set and an intermediate entity running in
25 the second operative environment, the at least one compliant provider being suitable to receive a request of a first dynamic service for a selected managed object of the set associated therewith from the framework, being suitable to identify a non-compliant provider associated with the selected managed
30 object, and being suitable to request a second dynamic service for the selected managed object, corresponding to the first dynamic service, to the intermediate entity passing an indication

of the non-compliant provider, and the intermediate entity being suitable to route the request of the second dynamic service to the non-compliant provider.

11. A resource management infrastructure including a framework
5 for allowing management applications to access managed objects,
the framework supporting compliant providers of dynamic services
for the managed objects running in a first operative environment,
a plurality of non-compliant providers of dynamic services for a
set of the managed objects, the non-compliant providers running
10 in a second operative environment non-supported by the framework,
and the system according to claim 10 for integrating the
non-compliant providers into the resource management
infrastructure.